

Emissions Inventory Help Sheet for Sand and Gravel Plants

What do I need to report?

Use a separate **General Process Form** to report information on each source of emissions at your plant. Give each process a unique Process ID number (see Instructions for Reporting 1999 Annual Air Pollution Emissions regarding General Process Form). Include:

- all applicable sources from the list below,
- vehicles on unpaved areas on-site (see Help Sheet for Vehicle Travel on Unpaved Roads),
- gasoline storage (in tanks with 250-gallon capacity or greater), and
- internal combustion engines (other than emergency backup engines that operated a total of less than 200 hours, or vehicle engines).

Regarding the processes listed below, determine the total tons of material supplied to each. Remember that some material goes through some processes more than once. For example, if 50 tons of rock are sent through a crusher three times, the total material supplied to the crusher is 150 tons. Do not include wet processes at a wet plant. **Only PM₁₀ emissions are to be reported for the processes listed below.**

<u>General Process Form: Line 2</u>	<u>Line 4</u>	<u>Line 5</u>	<u>Line 9</u>	<u>Line 12</u>	<u>Columns 15 & 16</u>		<u>Column 17</u>
Process Name/Description	Tier Code	SCC Code	Emissions based on	Unit of measure	Emission Factor (EF)	EF Unit	Controlled?
Mining/plant feed, handling	070503	30502505	(name of material)	tons	0.00055	lb/ton	Yes
Surge pile forming, handling	070503	30502505	(name of material)	tons	0.00055	lb/ton	Yes
Crushing with watering (primary, secondary & tertiary)	070503	30502510	(name of material)	tons	0.00059	lb/ton	Yes
Screening with watering	070503	30502511	(name of material)	tons	0.00084	lb/ton	Yes
Conveyor transfer point	070503	30502503	(name of material)	tons	0.000048	lb/ton	Yes
Pile forming, handling	070503	30502505	(name of material)	tons	0.00055	lb/ton	Yes
Load out, handling	070503	30502505	(name of material)	tons	0.00055	lb/ton	Yes

The above activities are required to use watering to control emissions. These emission factors include watering to produce a moisture content greater than 1.5%; therefore, no further capture or control efficiencies may be claimed for these processes. Examples of materials include “rock” and “sand.”

Stockpiles, raw material and product storage *	070503	30502507	average # acres	acres	630	lbs/acre/yr	No
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* The stockpile emission factor above is uncontrolled. You may account for dust control efforts on stockpiles and unpaved travel if you use water or other dust suppressants and if you are in full compliance with the record keeping requirements in Rule 310, Fugitive Dust Sources and/or Rule 316, Nonmetallic Mineral Mining and Processing. Show capture efficiency (in column 19) = 100%. Control efficiency of 70% is allowed for regular watering. The range of acceptable control efficiencies for chemical palliatives (dust suppressants) is 70–90%.

Reference: U.S. EPA, “Compilation of Air Pollutant Emission Factors: Volume I: Stationary Point and Area Sources” (AP-42), fifth ed. Table 11.19.2-2.